

ABSTRACT OF THE DISCLOSURE

An ink-jet printhead using a laser to expel ink includes an ink chamber to be filled with ink and an ink channel to supply the ink chamber with ink, the ink chamber and the ink channel formed in a passageway plate, a cover plate provided on the passageway plate, an ink ejection hole formed through the cover plate at a position corresponding to the ink chamber, a condenser lens provided on a bottom surface of the passageway plate at a position corresponding to the ink chamber, and laser beam irradiating means for irradiating a laser beam through the condenser lens and onto ink contained in the ink chamber, wherein a surface of the ink is vibrated by a pressurized wave generated by the laser beam, and a vibration causes an ink droplet to be expelled through the ink ejection hole from the surface of the ink.